

CONTROL SYSTEM FOR A HYBRID ELECTRIC VEHICLE POWERTRAIN

Abstract

A control system for a hybrid powertrain for a hybrid electric vehicle with an internal combustion engine and an electric drive system including an electric motor, a battery and a generator. The control system includes a system controller that monitors actual battery power in a closed-loop fashion and detects an error between actual battery power and a request for battery power. The engine power is corrected so that the battery is used at its intended level, thereby avoiding unnecessary charging and discharging.